ABSTRACT

A multicolor development glass vessel of high surface hardness whose color is differentiated depending on the direction of viewing the glass vessel and a process for producing the same are provided. In the multicolor development glass vessel, a multilayer film is directly or indirectly formed on the external surface and internal surface, or either one thereof of the glass vessel by vapor deposition or sputtering technique and contains, for example, two types of vapor deposition layers whose refractive indices differ from each other by 0.1 or more in an alternate manner. Furthermore, for carrying out the process for producing the multicolor development glass vessel, the following steps (1) and (2) are included.

(1) Step of preparing a glass vessel.

(2) Step of forming a multilayer film composed of two types of vapor deposition layers having different refractive indices , directly or indirectly provided on the external surface and internal surface, or either one thereof of the glass vessel by a vapor deposition or sputtering technique.